**Miao Liang Field trip**

**This worksheet must be completed by the end of the fieldtrip, all of the answers will be given during the trip, so pay attention.**

2.1.1 Distinguish (give examples) between abiotic (physical) and biotic components you observe at Miao Liang

2.2.1 Circle the most significant abiotic factors of this ecosystem

|  |  |
| --- | --- |
| Biotic | Abiotic (Physical) |
|  |  |

2.1.6 Define the terms and give **local examples**.

* Species:
* Populations:
* Community:
* Ecosystem:
* Habitat:

* Niche:

2.3.4 Define the term diversity.

2.4 Circle the Biome that Miao Liang Fits into.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tropical Rainforest** | **Temperate Forest** | **Tundra** | **Desert** | **Temperate Grassland** |
| Within 5 of equator  Rainfall, Temp  Nutrients are Limiting  Seasonal variation  Biodiversity  Cycling of nutrients  Decomposition | Bwt 40-60 N & S of equator  Rainfall bwt. 500-1000 mm/yr  Temp range -30 to +30 C  <biodiversity that tropical rainforest  deciduous trees give way to conifers as you increase in steepness of slope | S of artic ice cap  Cold, precipitation  Water is limiting  Permafrost (soil is permanently frozen)  No trees, but lots of low growing organisms (grasses, mosses, short shrubs) | About 30 N & S of equator  Water is limiting  Hot in day, cold at night  Biodiversity  Decomposition  Few pants & animals | Found in the center of continents—40-60 from equator  Moderate temps,  precipitation  Grasses, trees |

2.5.1 Explain the role of the following:

* Producers:
* Consumers:
* Decomposers:

2.6.5 Draw a picture of the zonation found on the mountain behind the environmental center. In your own words, describe “zonation”.

2.7.1 Describe one way to measure biotic components along a gradient (a spatial change, ie. From the top of the mountain down the sides, from the top of a beach down into the intertidal regions.)

4.1.5 In your own words, explain the relationship between the biodiversity of an area and ecosystem stability and resilience.

7.1.3 Discuss which environmental viewpoint The Miao Liang Environmental Center was Built with. Give evidence to support your answer.